TIRES

Innovation at Every Turn



Chem Trend

INNOVATIVE TIRE SOLUTIONS

Providing a competitive advantage.

Inside Tire Paints

Inside tire paints help ensure minimal curing defect levels and optimal tire uniformity while enhancing release properties. All Chem-Trend inside tire paints are water-based, supporting health, safety, and environmental (HSE) considerations while maintaining high process performance. Our complete line includes filled, specialty filled, unfilled, and durable inside tire paints.

Processing issues addressed: trapped air and inner liner defects, scrap/rework, uniformity variations, cosmetic defects

Bladder Coatings

Curing bladder treatments protect the working surface of the curing bladder against chemical and high-abrasion attacks during its service life. Shielding bead-contact regions helps improve service life and supports more consistent performance where release variability, bead-area defects, and premature wear can drive downtime.

Processing issues addressed: bladder degradation, bead area sticking/tearing, release variability that leads to tire scraps and process downtime

Mold Coatings

Chem-Trend water-based, semi-permanent mold coatings are engineered to extend treatment durability across multiple curing cycles, reducing the need for frequent re-application per shift. By minimizing buildup and performance drift over longer runs, they help improve press uptime and deliver consistent tread and sidewall appearance.

Processing issues addressed: frequent reapplication, mold fouling and residue buildup, appearance variability over production runs

Outside Tire Paints

Chem-Trend water-based outside tire paints are designed to promote effective air-bleed and uniform rubber flow while maintaining minimal impact on rubber to rubber adhesion. The result is improved surface definition and enhanced cosmetic quality without compromising downstream bonding performance.

Processing issues addressed: venting performance, trapped air, flow marks, cosmetic defects, appearance consistency

Where Technology Meets Traction: Advanced Tire Process Solutions

Chem-Trend supports tire manufacturers in improving process stability, product consistency, and equipment uptime — especially where it matters most: on the plant floor.

We work side-by-side with your teams to understand your process conditions, curing equipment, materials, and root causes of variability, including:

- Air entrapment (trapped air) and venting limitations that lead to cosmetic defects and incomplete surface definition
- Press conformation variability that impacts dimensional uniformity, physical properties, and scrap rates
- Release variability resulting in sticking, tearing, or surface marking
- Bead area challenges, often linked to bladder wear and inconsistent release performance combined with lack of slip
- Mold fouling/buildup that drives cleaning downtime

With these realities in mind, we develop and refine solutions that help reduce defects, improve throughput, and increase process predictability across curing and vulcanization operations.



Tailored Support That Maximizes Your Results

Chem-Trend is your partner on the plant floor — where we gain a deep understanding of your process, requirements, equipment, and critical failure modes. With this knowledge, we can recommend the most effective solutions for your specific needs — helping reduce scrap, rework, and unplanned downtime.

Through continuous development of chemical technologies in our own laboratories, we formulate solutions that address tire manufacturing challenges. Our proprietary evaluation methods are designed to mirror production conditions, enabling performance assessment against key parameters such as: air evacuation, release and slip consistency across multiple cycles, surface finish and appearance, and mold fouling tendency.

ENABLING NEXT GENERATION TIRE DESIGNS

As tire designs evolve, manufacturers face new processing demands driven by complex performance requirements. Chem-Trend helps customers support the production of advanced tires, including:

- Low noise (“silent”) tires and sealant tires where stable, repeatable processing is critical for any downstream process
- Smart tires, when process consistency allow maintaining predictable production outcomes
- Run flat tires, where reinforced sidewalls demand precise control of release behavior, and cure consistency

Chem-Trend Regional Headquarters

NORTH AMERICA
+1 517 545 7980

SOUTH AMERICA
+55 19 38818200

EUROPE
+49 8142 417 0

CHINA
+86 21 6700 3998

ASIA PACIFIC
+66 2 731 6557

CHEMTREND.COM/CONTACT

© Copyright 2026 Chem-Trend L.P. All Rights Reserved.